Mehdi Vafakhah

Speciality: Water Resources

Academic Status: Professor



PhD: Natural Resources-Watershed Management Engineering MSc: Natural Resources-Watershed Management Engineering BSc: Natural Resources-Rangeland and Watershed Management Engineering

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Research Interests

- 1- Surface Hydrology
- 2- Flood Prediction and Control
- 3- Application of Geostatistic in Hydrology
- 4- Application of Remote Sensing Data for Characterization of Hydrologic parameters
- 5- Rainfall-Runoff Modeling
- 6- Application of Artificial Intelligent in Hydrology
- 7- Snow Hydrology
- 8-

Education

- 1 BSc : Rangeland & Watershed Management Engineering , Gorgan, IRAN, 1995
- 2 MSc : Watershed Management Engineering, Tarbiat Modares, IRAN, 1998
- 3 PhD : Watershed Management Engineering, Water Resource, Tehran University, Iran, 2008

Research Experience

- 1- Rangeland and Watershed Management Project, Bachelor Thesis, Shiraz, Iran, -
- 2- Climatology Studies for Sixty Case Studies in Markazi Province, Iran, -
- 3- Hydrologic Studies for Sixty Case Studies in Markazi Province, Iran, -
- 4- Coworker in National Planning of Preparation Erosion Feature Map of 15 Khordad Dam Basin, Markazi Province, Iran, -
- 5- Coworker in Research Plan of Role of Land Management in Soil Erosion, Markazi Province, Iran, -
- 6- Coworker in Research Plan of Recognition and Classification of Marles and Badlands, Vafaraghan Watershed, Markazi Province, Iran, -
- 7- Coworker in Providing of Identity Cards for Watersheds of Markazi Province, Iran, -
- 8- Coworker in Measurement of Runoff and Sediment in Standard Plot for Evaluation of USLE, -
- 9- Estimation Regional Frequency of Low-Flows in the Seasonal Rivers(Case Study in the Arid Regions of Central Iran), Master Thesis, 1998, -
- 10- Project Manager in Regional Analysis of Sediment Yield in Northern Region(Mazandaran and Gorgan, 01/01/2000 -
- 11- Soil Erosion and Sediment Study, Dasht Zarand, Iran, -
- 12- Composing and Resulting Design Account for Two Case Studies in Markazi Province, Iran, -
- 13- Composing and Resulting Project Execution for Three Case Studies in Markazi Province, Iran, -
- 14- Composing and Resulting Project Execution for Four Case Studies in Markazi Province Using Geographical Information System , Iran, -
- 15- Designing Operation of Water Spear ding and Permanent Development Agriculture Study, Dasht Zarand, Iran, -
- 16- River Engineering Study, Dasht Zarand, Iran, -
- 17- Executive and Project Manager Executive Study in Five Case Studies in Markazi Province, Iran.,
- 18- Executive and Project Manager Design Account-Executive Study, Dasht Zarand, Iran, -
- 19- Coworker in Investigation on Forage Quality of Three Species in the Rangeland in Three Different Stages of Phonology, 01/01/2003 -
- 20- Coworker in Study on Morphometrical Variations of Bed Load Sediments along Vaz River in Mazandaran Province, Iran, 01/01/2004 -
- 21- Coworker in Investigation on Spatial Variations Erosivity R Factor in Mazandaran Province, Iran, 01/01/2004 -
- 22- Coworker in Estimation and Forecasting of Flood Occurrence Using Synoptic Systems Location in the Southern Beach of Caspian Sea, 01/01/2004 -

Comparison of Artificial Neural Network, Neuro-Fuzzy, and Auto-Regressive Models to

- 23- Intelligent Prediction of Runoff in Hajighoshan River, Tarbiat Modares University, Iran, 02/01/2010 01/02/2011
- 24- Coworker in Optimization of Soil Erosion by Using Geographic Information System in Taleghan Region, -
- 25- Coworker in Comparison of Different Geostatistical Methods for Estimating Evapotranspiration in Salt Lake Watershed, -

Teaching Experience

- 1- General Hydrology, Undergraduate
- 2- River Engineering, Postgraduate
- 3- Applied Hydrology, Undergraduate
- 4- Cartography, Undergraduate
- 5- Snow and Avalanche, Postgraduate
- 6- Remote Sensing, Short Course
- 7- Watershed Management, Short Course
- 8- Flood Control, Postgraduate
- 9- Advance Hydrology, Postgraduate
- 10- Geostatistics, Postgraduate
- 11- Rainfall-Runoff Models, , Postgraduate

Languages Skills

1- English

Computer Skills

1- ILWIS, Arc/GIS, Matlab, Statistica, SPSS, HYFA, HEC-HMS, HEC-RAS, SWMM, SWAT, ENVI, Word, Excel, PowerPoint

Awards

1- Selection as the Best Master Thesis , 20th Anniversary Establishment of Tarbiat Modares University, 2002

2- Selection as the Best Researcher during 2003, 2008 and 2015 years, Tarbiat Modares University.

Books

Vafakhah, M., Moghadam Nia, Flood Control, Tarbiat Modares University Press, 2018.

M Vafakhah, H Akbari Majdar, Rainfall Prediction Using Time Series Analysis, Ch. 28 in Handbook of Drought and Water Scarcity, Vol. 1: Principles of Drought and Water Scarcity, Ed. by Eslamian, CRC Press, USA, 2017

M Vafakhah, Application of Intelligent Technology in Rainfall Analysis, Ch. 24 in Handbook of Drought and Water Scarcity, Vol. 1: Principles of Drought and Water Scarcity, Ed. by Eslamian, CRC Press, USA, 2017

M Vafakhah, S Eslamian, S Khosrobeigi Bozchaloei, Low-Flow Hydrology, Handbook of Engineering Hydrology 1, 433-453, 2014.

M Vafakhah, S Eslamian, Regionalization of Hydrological Variables, Handbook of Engineering Hydrology CRC Press, USA 2, 471-499, 2014

H Nazarnejad, M Mohseni Saravi, M Vafakhah, Hydrology and the Management of Watershed, University of Tehran Press, 2012.

National Journals

Vafakhah, M., M. Mahdavi and M.R. Ghannadha 1999, 'Selection of the Most Suitable Statistical

- 1- Distribution Function for Determining of Low Flow of One Day and Seven Day(Case Study :Salt Lake Basin Iran)', *Pajouhesh and Sazandegi*, pp. 26-31
- 2- Vafakhah, M., 2000, 'Diagnosis of Effective Factors in Flooding by Using Factor Analysis in Gharachi Basin', *Pajouhesh and Sazandegi*, pp. 72-76

Gholami, A., M.Mahdavi, M.R.Ghannadha and M. Vafakhah, 2002, 'An Evaluation of Suitable Probability Distribution for Minimum, Mean and Maximum Discharges, Using L Moment

3- Probability Distribution for Minimum, Mean and Maximum Discharges, Using L Method', Iranian Journal of Natural Resources, pp. 345-355

Zehtabian, Gh.R., O.Alipour and M.Vafakhah, 2002, 'A Study of the Application of Artificial

4- Unit Hydrograph for Analyzing the Floods of Watershed Basin in North of Iran', *Iranian Journal of Natural Resources*, pp. 331-345

Mahdavi, M., A.A. Jamali, S.A. Ayobzadeh and M.Vafakhah, 2004, 'A Sensitivity Study of

5- Storm Hydrologic Empirical Methods for Estimating Flood Peak as Related to Drainage Area in Watershed in Iran', *Iranian Journal of Natural Resources*, pp. 414-427

Erfanzadeh, R. and M.Vafakhah, 2003, 'Determination of Relation Between Soil Factors and

- 6- Forage Quality in Two Species in the Rangeland (*Trifolium repens* and *Vicia tetrasperma*', *Pajouhesh and Sazandegi*, pp. 101-102
- 7- Gholami, A., M.Mahdavi and M. Vafakhah, 2003, 'Comparison Between Linear Moment and

Ordinary Moment for the Simulation of Minimum', Pajouhesh and Sazandegi, pp. 8-14

- 8- Vafakhah, M. and D. Najafi, 2002, 'Modeling of Hydrological Events Using Artificial Neural Network', *Forest and Range Journal*, pp. 30-35
- Vafakhah, M 2004, 'Application of Systematic Model in Development of a Feasible-Detailed
 9- Study in Saveh Maraq-Maraghkan Watershed', *Journal of Agricultural Sciences and Natural Resources of Khazar*, pp. 15-24
- Khosravi, M., Mohseni Saravi, M., Vafakhah, M.and G., Fathi , 2011, 'Determination of the Best
 Hydrologic Homogeneous Method for Regional Flood Analysis in Western Watersheds, Iran', *Iran-Watershed Management Science and Engineering*, Vol. 4, No. 13, pp. 20-15
 - Vafakhah, M. and Gh., Shojaei, 2008, 'Determination of the Most Suitable Stage-Discharge
- 11- Relation at the Hydrometric Station of Zayandehrud Regulatory Dam', Journal of Science and Technology Agriculture and Natural Resources, Vol. 11, No. 42, pp. 315-323
- Moradi, H.R., M. Vafakhah and A.K.Bavil 2008, 'Comparison of Flood Routing by Muskingum
 12- and Muskingum-Cunge Methods in the Part of Lighvan River', *Journal of Science and Technology Agriculture and Natural Resources*, Vol. 11, No. 42, pp. 335-343

Yazdani, M.R., M., Mahdavi, E. Hosseini Chegini and M. Vafakhah 2006, 'Maximum Flood

13- Discharge Estimation for Small Watersheds', *Iranian Journal Natural Resources*, Vol. 59, No. 2, pp. 353-363

Chidaz, A.; Mohsenisaravi, M. and M. Vafakhah ,2009, 'Evaluation the HEC-HMS model for

14- estimating flood hydrograph in Kasilian watershed', *Pajouhesh and Sazandegi*, Vol. 22, No. 3, pp. 72-59

Poor Hjizadeh, A.; Mohseni Saravi, M.; Varvani, J. and M. Vafakhah , 'Relationship between

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Vafakhah, M.; Mohseni Saravi, M. and M. Onagh , 2009, 'Comparison of Different Geostatistical
Methods for Estimating Evapotranspiration in Salt Lake Watershed', *Pajouhesh and Sazandegi*, Vol. 22, No. 2, pp. 40-30

- Sadeghi, S.H.R., H.R., Moradi, M., Mozain and M., Vafakhah, 2005, 'Comparison of Different
- 17- Statistical Analysis Methods in Rainfall-Runoff Modeling (Case Study: Kasilian Watershed)', Agriculture Sciences and Natural Resources Journal, pp. 81-90

Karami Khaniki, A., M., Dehghani, M., Godarzi and M., Vafakhah, 2005, 'Flood Routing in Tidal 18- Rivers using MIKE21 Software(Case Study Zohre River)', *Water and Soil Conservation Journal*,

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- 19- Monitoring of Bakhtegan, Tashk and Mahrloo Lakes Watershed Droughts', *Desert Journal*, pp. 369-383

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- 21- Sadeghi, S.H.R., B. Yasrebi, S. Aghabeigi Amin and M. Vafakhah, 2005, 'Temporal and Spatial

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- Sadeghi, S.H.R., M. Hajigholizadeh and M. Vafakhah, 2006, 'Effect of Groins and Drops on 25- Flood Depth and Extensions(Case Study: Tehran Kan River)', *Agriculture Sciences and Natural*
- ²⁶⁻ Vafakhah M., 2006, 'Regional Analysis of Sediment Yield in the Part of Caspian Sea Watersheds', *Agriculture Sciences and Natural Resources Journal*, Vol. 13, No. 6, pp. 121-131

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- Vaz River)', *Iran-Water Resources*, Vol. 4, No. 1, pp.
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30- Analysis in the Part of Large Central Watershed of Iran', *Iran-Watershed Management Science and Engineering*, Vol. 4, No. 11, pp. 52-49

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- 32- Bashari M. and M.Vafakhah , 2012, 'Probability Study of Hydrological Drought and Wet Periods Occurrence using Markov Chain in Kashafrood Watershed', *Pajouhesh and Sazandegi*, pp.

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 37- Golestan Province), Journal of Water and Soil Conservation (Journal of Agricultural Sciences and Natural Resources); 20(2);221-230.

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³⁹⁻ Vafakhah, M., Bakhshi Tiragani, M. and M., Khazaei, 2012, Analysis of Rainfall and Discharge Trend in Kashafrood Watershed, Geography and Development Iranian Journal, 10(29): 77-90.

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Storm Runoff Coefficient Estimation Using Adaptive Neuro-Fuzzy Inference System in Barariyeh Watershed, Neishabour M Jafari, M Vafakhah, A Tavasoli

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Optimal Parameter Estimation for Nonlinear Muskingum Model based on Artificial Bee Colony Algorithm

M Vafakhah, A Dastorani, A Moghaddam Nia ECOPERSIA 3 (1), 847-865

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Evaluation of Watershed Management Practices (WMPs) Effect on Flood Characteristics

Y Nabipoor, M Vafakhah, HR Moradi JWSS-Isfahan University of Technology 18 (67), 199-215

Application of Geostatistics for Evaluation of Spatial variability of Precipitation concentration Index (PCI) in Ghazvin Province, Iran

HP Karani, H Eslami, M Vafakhah Bull. Env. Pharmacol. Life Sci 3 (4), 60-64

Effect of Riparian Vegetation on Morphometric and Morphological Indices in Braided Part of Talar River

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Forecasting of Runoff and Sediment Using Neural Network and Multi Regression in Aghajari Marls

M VAFAKHAH, H SAIDIAN JOURNAL OF RANGE AND WATERSHED MANAGEMENT (IRANIAN JOURNAL OF NATURAL ...

Investigation of Suspended Sediment Load, Phosphorus and Organic Matters Changes in The River Flow (Case Study: Tilenrud Watershed)

P JALALI, M VAFAKHAH, MR JAVADI NATURAL ECOSYSTEMS OF IRAN 5 (3), 103-113

Developing Models of Daily Sediment Yield Estimation for Kojur Forest Watershed

Z ASADOLAHI, M VAFAKHAH, SH SADEGHI JOURNAL OF RANGE AND WATERSHED MANAGEMENT (IRANIAN JOURNAL OF NATURAL ...

Effect of Flood Water Spreading on Some Soil Chemical Properties in Delijan Region

MR Javadi, M Baghery, M Vafakhah, SA Gholami IRANIAN JOURNAL OF SOIL RESEARCH (FORMERLY SOIL AND WATER SCIENCES) 27 (4 ...

Prediction of Alongshore Sediment Transport Rate Using Semi-Empirical

Formulas and an Artificial Neural Networks (ANNs) model in Noor Coastal zone

T Sadeghifar, SA Azarmsa, M Vafakhah International Journal of Maritime Technology 9 (17), 77-86

Seasonal variations of suspended sediment concentration in rain and snow melting floods

S Aghabeigi, AR Telvari, K Mirnia, S Feiznia, M Vafakhah Journal of Watershed Engineering and Management

Evaluation of Some Infiltration Models for Different Land Uses in Kojour Watershed

SS KAVOUSI, M VAFAKHAH, MH MAHDIAN IRANIAN OF IRRIGATION & WATER ENGINEERING 4 (13), 1-13

Assessment the Performance of Support Vector Machine and Artificial Neural Network Systems for Regional Flood Frequency Analysis (A Case Study: Namak Lake Watershed) E Shrifi Garmdareh, M Vafakhah, S Eslamian

JWSS-Isfahan University of Technology 23 (1), 351-366 Hydrological Drought Forecasting Using Time Series R Alijani, M Vafakhah

Desert Ecosystem Engineering Journal 7 (20), 45-56

International Journals

Shirmohammadi, B., Vafakhah, M., Moosavi, V. and A.R., Moghaddamnia, 2013, 'Application of Several Data-Driven Techniques for Predicting Groundwater Level', Water Resources

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Moosavi, V., Vafakhah, M., Shirmohammadi, B. and N., Behnia, 2013, 'A Wavelet-ANFIS Hybrid Model for Groundwater Level Forecasting for Different Prediction Periods' Water

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3- multilayer perceptron (MLP) and radial basic function (RBF) algorithms', Arabian Journal of Geosciences, 6(8): 2873-2888.

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 4- Models for Suspended Sediment Load Forecasting', *Arabian Journal of Geosciences*, 6(6):3003-3018.

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Vafakhah, M., 'Application of Artificial Neural Networks and Adaptive Neuro-Fuzzy Inference System Models to Short-term Streamflow Forecasting', *Canadian Journal of Civil Engineering*,

 5- System Models to Short-term Streamfow Porecasting, Canadian Journal of Civit Engineering, Vol. 39, pp. 414-402 http://www.nrcresearchpress.com/doi/abs/10.1139/12012-011

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Sadeghi, S.H.R., M.H.Hajigholizadeh, M. Vafakhah and J.K. Singh, 'Effect of Hydraulic

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Vafakhah, M. and Mohseni Saravi, M., 2011, 'Optimizing Management of Soil Erosion in
10- Orazan Sub-basin, Iran', *Journal of Agricultural Science and Technology(JAST)*, Vol. 13, pp. 717-726

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Spatial and Temporal Analysis of Monthly Streamflow Deficit Intensity in Gorganroud Watershed, Iran

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A comparative assessment of adaptive neuro-fuzzy inference system, artificial neural network and regression for modelling stage-discharge relationship

M Vafakhah, E Kahneh International Journal of Hydrology Science and Technology 6 (2), 143-159

Rainfall–Runoff Modeling Using Support Vector Machine in Snow-Affected Watershed

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H Akbari, M Vafakhah ECOPERSIA 3 (4), 1175-1188

Assessment of some homogeneous methods for the regional analysis of suspended sediment yield in the south and southeast of the Caspian Sea H Kheirfam, M Vafakhah

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Monitoring of fluvial systems by RS and GIS (Case study: Talar River, Iran)

S Yousefi, HR Moradi, A Telvari, M Vafakhah Journal of Selcuk University Natural and Applied Science 4 (2), 60-72

Optimal Parameter Estimation for Nonlinear Muskingum Model based on Artificial Bee Colony Algorithm

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Regional Analysis of Flow Duration Curves Using Adaptive Neuro-Fuzzy Inference System

SK Bozchaloei, M Vafakhah Journal of Hydrologic Engineering 20 (12), 06015008

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M Vafakhah, A Nouri, SK Alavipanah Environmental Earth Sciences 73 (3), 993-1003

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F Sedighi, M Vafakhah Cumhuriyet Science Journal 36 (3), 1832-1843

Application of Several Data-Driven Techniques for Rainfall-Runoff Modeling M Vafakhah, S Janizadeh, S Khosrobeigi Bozchaloei ECOPERSIA 2 (1), 455-469

Hydrology modelling in Taleghan mountainous watershed using SWAT H Noor, M Vafakhah, M Taheriyoun, M Moghadasi Journal of Water and Land Development 20 (1), 11-18

Optimization of wavelet-ANFIS and wavelet-ANN hybrid models by Taguchi method for groundwater level forecasting

V Moosavi, M Vafakhah, B Shirmohammadi, M Ranjbar Arabian Journal for Science and Engineering 39 (3), 1785-1796

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H Noor, M Vafakhah, M Taheriyoun, M Moghaddasi International Journal of Engineering 27 (11), 1645-1652

Landslide susceptibility mapping at Vaz Watershed (Iran) using an artificial neural network model: a comparison between multilayer perceptron (MLP) and radial basic function (RBF) algorithms

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J Chezgi, M Vafakhah, S Falahatkar Journal of the Indian Society of Remote Sensing, 1-16

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AM Mohammadi, M Vafakhah, MR Javadi Journal of Civil Engineering and Construction 8 (3), 107-111

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M Vafakhah, F Karamizad, SHR Sadeghi, H Noor International Journal of Environmental Science and Technology 16 (7), 3745-3760

MODELING SNOWMELT-RUNOFF UNDER CLIMATE CHANGE SCENARIOS IN THE BEHESHTABAD WATERSHED.

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Memberships in Societies

1- Member of Iranian Water Resources Association, -

2- Member of Iranian Society of Irrigation and Water Engineering, -

Journal Reviewer

- 1- Journal of Hydrologic Engineering, America
- 2- Iranian Journal of Watershed Management Science and Engineering, Iran
- 3- Iranian Journal of Water Research, Iran
- 4- Journal of Hydrology, America
- 5- Pajohesh and Sazandeghi Journal, Iran
- 6- Iranian Journal of Water and Soil(Gorgan), Iran
- 7- Journal of Range and Watershed Managment, Iran
- 8- Hydrological Science Journal
- 9- Arabian Journal of Geosciences

Conference Reviewer

- 1- 6th National Seminar on Watershed Management Science and Engineering, Tarbiat Modares University
- 2- 4th National Seminar on Erosion and Sediment, Tarbiat Modares University
- 3- Iranian Water Conference-Clean Water, Shahid Abaspour Power and Water University and Technology
- 4- First Seminar on Snow, Ice and Avalanche, Research Center for Agricultural Sciences and Natural Resources Chahar Mahal and Bakhtiari

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- 1- Seife, A, 'Hybrid Method on Prediction of Flood Discharge in Part of South-West of Iran', Adviser
- 2- Fathinasab, H, 'Investigation on Effect of Water Turbidity on Soil Permeability in Flood Spreading Project', Adviser
- 3- Alipourtomaj, O, 'Investigation on Synthetic Unit Hydrograph Application in Flood Analysis of North Watershed of Country', Adviser
- 4- Yazdani, M.R, 'Determination of Maximum Discharge of Flood by SCS Graphical Model in Small Watersheds', Adviser
- 5- Akhondi, A, 'Investigation on Curve Number Model in Flood Estimation Using Geographical Information System', Adviser

- 6- Gholami, A, 'Study on Best Frequency Distribution for Maximum, Mean and Minimum Discharges by Using L-Moment Method', Adviser
- 7- Jamali A.A, 'Sensitivity Study of Sum Hydrograph Empirical Method for Estimating the Flood Peak Due to Drainage Area in Watersheds of Iran', Adviser
- 8- Jokar, J, 'An Investigation Flood Generation in Sub Catchments of Shapour River Using Flood Simulation Method', Adviser
- 9- Najafi, D, 'Prioritization of "Isfahan and Sirjan" Sub watersheds in Generation of Sediment Using Regional Analysis', Adviser
- 10- Dehghani, M, 'The Efficiency Assessment of Flood Routing Methods in Tidal Zohre River', Adviser
- 11- Hajigholizadeh, M, 'Study of Effects of Human Interferences on Flood Behavior in a part of Tehran Kan River', Adviser
- 12- Khaledi Darvishan, A, 'Relationship Between Watershed Hydrologic Characteristics and Bed Load Morphometry in Vaz River', Adviser
- 13- Asadolahi, Z, 'Modeling Daily Sediment Variation in Kojur Forest Watershed', Guidance
- 14- Nabipour, Y, 'Impact Evaluation of Watershed Management Measures on Flood Control in Hajighoshan Watershed, Golestan Province', Guidance
- 15- Chidaz, A, 'Evaluation the HEC-HMS model for estimating flood hydrograph in Kasilian basin', Adviser
- 16- Poor Hjizadeh, A, 'Relationship between NASH instantace unit hydroghraph parameters and flow physiographical characteristics in some selection watersheds, Iran', Adviser
- 17- Rostami, M, 'Temporal variability of effective discharge for suspended sediment transport in Kojur forest watershed', Adviser
- Jafari, M, 'Prediction of Runoff Coefficient using Artificial Neural Network in the Neishabour Bar Watershed', Guidance
- 19- Kavosi, S.M, 'Determination of Infiltration Parameters Using Artificial Neural Netwok and Neuro-Fuzzy', Guidance
- 20- Dastorani, A, 'Comparison of Some Optimization Methods of Muskingum Flood Routing Parameters in a Part of Karoon River', Guidance
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- 22- Kahneh, E, 'Modeling Stage-Discharge Relationship Using Artificial Intelligence Methods and Regression in Tangeh Lavij Hydrometry Station', Guidance
- 23- Noori, A, 'Simulation of Snowmelt-Runoff using Radiation SRM Model, A Case Study in Taleghan Watershed', Guidance
- 24- Kamaraei, R, 'Spatial Variability of Nitraria schoberi to Relation Soil Properties using Geostatistical Technique, Case Study: Meighan Desert of Iran', Adviser
- 25- Ghanbari, F, 'Spatial Variations of Production, Density and Canopy Cover Percentage Artemisia

aucheri Boiss. using Geostatistical Methods in Baladeh, Noor', Adviser

- 26- Khodaparast, R, 'Determination of the Ability of HEC_HMS Model in Rainfall-Runoff Simulation', Adviser
- 27- Torabi, M, 'Using an artificial neural network to model monthly shoreline variations ', Adviser
- 28- Tale, S, 'Comparison of neuro-fuzzy and HEC-HMS in prioritizing sub-basins for watershed management operations (a case study: Taleghan watershed)', Adviser
- 29- Sadeghifar, T, 'Prediction of Longshore Sediment Transport Rate Using Artificial Neural Networks(ANNs) in Nour Coastal Zone, Caspian Sea', Adviser

Ph.D. Thesis Supervised

- 1- Aghabigi, S, 'Sediment forecasting and routing models for river reaches by Muskingum sediment rating models ', Adviser
- 2- Noor, H, 'Effect of Spatial Pattern of Watershed Management Scenarios on Runoff Entering Taleghan Dam', Guidance

Professional Experiences

- 1- Responsible Creation of River Engineering Station in Markazi Province, 01/01/1998 01/01/1999
- 2- Expert and Manager of Project at Watershed Management Designs, Flood Control and Artificial Nutrition at Nashtak and Sahba , 01/01/1995 , since 1995
- 3- Member of Council Science in Tarbiat Modarres University, 01/01/1998 , since 1998
- 4- Teacher of Agriculture Sciences and Natural Resources in Gorgan University, 01/01/1991 01/01/1995
- 5- Expert Research in Center of Research Natural Resources and Affairs Trap Markazi Province, 01/01/1995 - 01/01/1999
- 6- Expert and Manager of Project in Watershed Management Jahad-E-Sazandegi Markazi Province, 01/01/1996 - 01/01/1999

Seminars

- 1- National Conference on Watershed and Soil And Water Management, Kerman, Iran
- 2- The Fourth International Iran and Russia, Sharkourd, Iran
- 3- The 3nd National Congress on Range and Range Management, Karaj, Iran
- 4- The International Conference on Geohazards, Natural Disasters and Methods of Confronting with Them, Tabriz, Iran

- 5- International Conference on Qanat(Kariz), Kerman, Iran
- 6- National Conference on Watershed Management for Sustainable Production, Livelihood and Environment Security, Pantnagar, India
- 7- Second National Conference on Watershed and Soil And Water Management, Kerman, Iran
- 8- The Fifth Iranian Conference on Hydraulic, Kerman, Iran
- 9- National Congress on Sediment and Erosion, Karaj, Iran
- 10- International Sediment Initiative, Khartoum, Sudan
- 11- International Conference on Climate Change and the Middle East, Turkey
- 12- International Grassland Congress, China
- 13- X. European Ecological Congress, Turkey
- 14- Asian Simulation and Modeling, Thailand
- 15- First Seminar on Snow, Ice and Avalanche, Sharkord, Iran, 12/06/1390
- 16- 6th National Seminar on Watershed Management Science and Engineering, Noor, Iran
- 17- 4th National Seminar on Erosion and Sediment, Noor, Iran
- 18- The 2nd Iternational Geography Symposium, Antalya, Turkey
- 19- 5th River Engineering Conference, Ahvas, Iran
- 20- Second Conference of Iranian Geology Society, Mashhed, Iran
- 21- 1st National Seminar on Engineering Geology and Environment, Tehran, Iran
- 22- 2nd Regional Conference on Climate Change, Tehran, Iran
- 23- First National Conference on Drought Mitigation and Water Shortage, Kerman, Iran
- 24- 6th River Engineering Conference, Ahvas, Iran
- 25- Third Regional and First National Conference on Climate Change, Isfehan, Iran
- 26- 2nd International Conference on Artificial Intelligence Management Science and Electronic Commerce, Zhengzhou, China